



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION

PF-429242 (hydrochloride)

Item No. 15140

CAS Registry No.: 2248666-66-0
Formal Name: 4-[(diethylamino)methyl]-N-[2-(2-methoxyphenyl)ethyl]-N-(3R)-3-pyrrolidinyl-benzamide, dihydrochloride

MF: $C_{25}H_{35}N_3O_2 \cdot 2HCl$

FW: 482.5

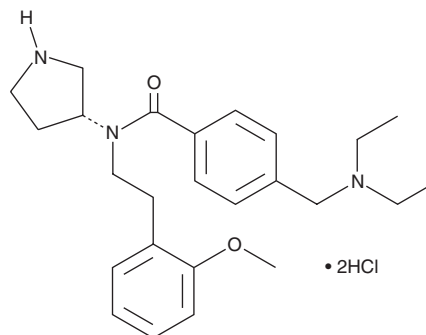
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 272 nm

Supplied as: A crystalline solid

Storage: $-20^{\circ}C$

Stability: ≥ 4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

PF-429242 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the PF-429242 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. PF-429242 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of PF-429242 (hydrochloride) in these solvents is approximately 30 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of PF-429242 (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of PF-429242 (hydrochloride) in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

PF-429242 is an inhibitor of site-1 protease with an IC_{50} value of 170 nM for human recombinant site-1 protease.¹ It is selective for site-1 protease over trypsin, elastase, proteinase K, plasmin, kallikren, factor Xla, thrombin, and furin at concentrations up to 100 μM . PF-429242 completely inhibits proteolytic processing and nuclear translocation of sterol regulatory element-binding protein (SREBP) in HepG2 cells at a concentration of 10 μM . It also reduces expression of HMG-CoA synthase and fatty acid synthase (EC_{50} s = 0.3 and 2 μM , respectively) and inhibits cholesterol synthesis (EC_{50} = 600 nM) in HepG2 cells and reduces cholesterol and fatty acid synthesis in CD-1 mice. PF-429242 inhibits replication of dengue virus serotypes 1-4 in infected HeLa cells.² It also reduces growth of T98G, U87-MG, and A172 glioblastoma cells (IC_{50} s = 0.32, 15.2, and 27.6 μM , respectively).³

References

- Hay, B.A., Abrams, B., Zumbunn, A.Y., *et al.* Aminopyrrolidineamide inhibitors of site-1 protease. *Bioorg. Med. Chem. Lett.* **17**(16), 4411-4414 (2007).
- Uchida, L., Urata, S., Ulanday, G.E., *et al.* Suppressive effects of the site 1 protease (S1P) inhibitor, PF-429242, on Dengue virus propagation. *Viruses* **8**(2), 46 (2016).
- Caruana, B.T., Skoric, A., Brown, A.J., *et al.* Site-1 protease, a novel metabolic target for glioblastoma. *Biochem. Biophys. Res. Commun.* **490**(3), 760-766 (2017).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 09/30/2022

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM